

1600

```
RAW SEQUENCE LISTING
                                                              DATE: 04/08/2003
                     PATENT APPLICATION: US/09/859,701
                                                              TIME: 12:16:44
                     Input Set : A:\94661sequencelisting.ST25.txt
                     Output Set: N:\CRF4\04082003\1859701.raw
      3 <110> APPLICANT: Warner, Benjamin P
      5 <120> TITLE OF INVENTION: Method for Detecting Binding Events Using Micro-X-Ray
              Fluorescence Spectrometry
      8 <130> FILE REFERENCE: S-94,661
     10 <140> CURRENT APPLICATION NUMBER: 09/859,701
                                                              M1-2
Doss Not Comply
     11 <141> CURRENT FILING DATE: 2001-05-16
     13 <160> NUMBER OF SEQ ID NOS: 5
     15 <170> SOFTWARE: PatentIn version 3.2
     17 <210> SEQ ID NO: 1
                                                             Comected Diskette Needed
     18 <211> LENGTH: 11
                                              needs to be explained in <2207-L2237
     19 <212> TYPE: PRT
     20 <213> ORGANISM artificial sequence
     22 <220> FEATURE:
    ,23 <223> OTHER INFORMATION: Xaa can be His, Arg, Ser, Trp, or Tyr
     26 <220> FEATURE:
     27 <221> NAME/KEY: MISC FEATURE
   . 28 <222> LOCATION: (1)..(11)
     29 <223> OTHER INFORMATION: X can be H, R, S, W, or Y
     31 <400> SEQUENCE: 1
W--> 33 Xaa Gly Gly Xaa Gly Gly Xaa Gly Gly Xaa Phe
     34 1
     37 <210> SEQ ID NO: 2
     38 <211> LENGTH: 11
                                                        TYI: Uplain source of genetic
hylphosphonic acid, material
     39 <212> TYPE: PRT
     40 <213> ORGANISM: artificial sequence
                                                                              material
in (2207-1225)
section
     42 <220> FEATURE:
     43 <223> OTHER INFORMATION: binds strongly to methylphosphonic acid
     46 <220> FEATURE:
     47 <221> NAME/KEY: BINDING
     48 <222> LOCATION: (1)..(11)
     50 <400> SEQUENCE: 2
    52 His Gly Gly His Gly Gly His Gly Gly Arg Phe
     56 <210> SEQ ID NO: 3
    57 <211> LENGTH: 11
     58 <212> TYPE: PRT
     59 <213> ORGANISM: artificial sequence
     61 <220> FEATURE:
     62 <223> OTHER INFORMATION: binds strongly to methylphosphonic acid
     65 <220> FEATURE:
     66 <221> NAME/KEY: BINDING
     67 <222> LOCATION: (1)..(11)
     69 <400> SEQUENCE: 3
```

RAW SEQUENCE LISTING

DATE: 04/08/2003 701 TIME: 12:16:44

PATENT APPLICATION: US/09/859,701

Input Set : A:\94661sequencelisting.ST25.txt
Output Set: N:\CRF4\04082003\I859701.raw

```
71 Tyr Gly Gly Tyr Gly Gly Trp Gly Gly Tyr Phe
 72 1
·75 <210> SEQ ID NO: 4
 76 <211> LENGTH: 11
 77 <212> TYPE: PRT
 78 <213> ORGANISM: artificial sequence
 80 <220> FEATURE:
 81 <223> OTHER INFORMATION: binds to the thiol
 84 <220> FEATURE:
85 <221> NAME/KEY: BINDING
 86 <222> LOCATION: (1)..(11)
 88 <400> SEQUENCE: 4
 90 Ser Gly Gly Arg Gly Gly His Gly Gly His Phe
 91 1
 94 <210> SEQ ID NO: 5
 95 <211> LENGTH: 11
 96 <212> TYPE: PRT
 97 <213> ORGANISM: artificial sequence-
 99 <220> FEATURE:
 100 <223> OTHER INFORMATION: binds to the thiol
 103 <220> FEATURE:
 104 <221> NAME/KEY: BINDING
105 <222> LOCATION: (1)..(11)
 107 <400> SEQUENCE: 5
 109 Trp Phe Phe His Gly Gly His Gly Gly Trp Phe
110 1
                     5
```

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/09/859,701

DATE: 04/08/2003 TIME: 12:16:45

Input Set : A:\94661sequencelisting.ST25.txt
Output Set: N:\CRF4\04082003\I859701.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,4,7,10

VERIFICATION SUMMARY

DATE: 04/08/2003

PATENT APPLICATION: US/09/859,701

TIME: 12:16:45

Input Set : A:\94661sequencelisting.ST25.txt
Output Set: N:\CRF4\04082003\I859701.raw

L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/859, 701	
ATTN: NEW RULES CASE	s: Please disregard english "Alpha" headers, which yere inserted by Pto S	OFTWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	-
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; the use space characters, instead.	· · .
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	-
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unions on sequences.	
7Skipped Sequences (OLD RULES)	Sequence(s)missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
٠	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9Use of n's or Xaa's • (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220><223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valld <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220><223> section is required when <213> response is Unknown or sis Artificial Sequence	nuse"
11 Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (Sop "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
3Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

AMC/MH - Biotechnology Systems Branch - 08/21/2001